

00539us.txt
SEQUENCE LISTING

<110> LEVITT, PAT R.

MIRNICS, KAROLY

KODAVALI, MENKATA CHOWDARI

NIMGAONKAR, VISHWAJIT L.

<120> METHODS AND SYSTEMS FOR FACILITATING THE DIAGNOSIS AND TREATMENT OF
SCHIZOPHRENIA

<130> 00-539-US

<140> 09/939,209

<141> 2001-08-24

<150> 60/228,021

<151> 2000-08-24

<160> 8

<170> PatentIn version 3.1

<210> 1

<211> 2934

<212> DNA

<213> Homo sapiens

<400> 1
gtacgctcaa agccgaagcc acagctcctc ctgccgcatt tctttcctgc ttgcgaattc 60
caagctgtta aataagatgt gcaaagggt tgcaggtctg ccggcttctt gcttgaggag 120
tgcaaaagat atgaaacatc ggctaggttt cctgctgcaa aaatctgatt cctgtgaaca 180
caattcttcc cacaacaaga aggacaaagt ggttatttgc cagagagtga gccaagagga 240
agtcaagaaa tgggctgaat cactggaaaa cctgattagt catgaatgtg ggctggcagc 300

00539us.txt

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|------|
| tttcaaagct | ttcttgaagt | ctgaatatag | tgaggagaat | attgacttct | ggatcagctg | 360 |
| tgaagagtac | aagaaaatca | aatcaccatc | taaactaagt | cccaaggcca | aaaagatcta | 420 |
| taatgaattc | atctcagtc | aggcaacca | agaggtgaac | ctggattctt | gcaccagggg | 480 |
| agagacaagc | cggaacatgc | tagagcctac | aataacctgc | tttgatgagg | cccagaagaa | 540 |
| gattttcaac | ctgatggaga | aggattccta | ccgccgcttc | ctcaagtctc | gattctatct | 600 |
| tgatttggtc | aaccctgcc | gctgtggggc | agaaaagcag | aaaggagcca | agagttcagc | 660 |
| agactgtgct | tccctgggtc | ctcagtgtgc | ctaattctca | cctgaaggca | gagggatgaa | 720 |
| atgccaaagc | tctatgctct | ggaaaacctg | aggccaaata | ttgatctgta | ttaagctcca | 780 |
| gtgctttatc | cacattgtag | cctaataatc | atgctgcctg | ccatgtgtga | gtcacttcta | 840 |
| cgcataaact | agatatagct | tttgggtgtt | gagtgttcat | cagggtgagg | ccccattcca | 900 |
| gtccaatttt | cctaagtttc | tttgaggggt | ccatgggagc | aaatatctaa | ataatggcct | 960 |
| ggtaggtctg | gattttcaaa | gattgttggc | agtttcctcc | tccaacagct | tttacctcgg | 1020 |
| gatggttggg | tagtgcattg | cacatgacat | ccacatgcac | atgtattctg | ttggccagca | 1080 |
| cgttctccag | actctagatg | tttagatgag | gttgagctat | gatatgtgct | tgtgtgtatg | 1140 |
| tctatgtgta | tatattatat | atacattaga | cacacatata | cattatttct | gtatatagat | 1200 |
| gtctgtgtat | acatatgtat | gtgtgagtgt | atgtatacac | acacacacac | acacacacac | 1260 |
| acacttttgc | aagagtgatg | ggaaagacct | taggtgctca | taactagagt | atgtgtatgt | 1320 |
| acttacatgg | gtgttttgat | ctctgttctt | tcatactaca | tttgaaacag | gcaaaatgaa | 1380 |
| ctaactgcc | tgtaggctaa | gaaagaaatg | ctaacctgtg | gaaagtgggt | tttgtaaaat | 1440 |
| tccatggatc | ttgctggaga | agcatccaag | gaacttcatg | cttgatttga | ccactgacag | 1500 |
| cctccacctt | gagcactatt | ctaaggagca | aataacctag | ctcccttgag | ctggttttct | 1560 |
| ctgatggcac | ttttgagctc | ctaagctgcc | agccttcctt | tcttttcctg | ggtgctcagg | 1620 |
| gcatgcttat | tagcagctgg | gttggtatgg | agttggcaga | caggatgttc | aacttaatga | 1680 |
| agaaatacag | ctaaggcctt | gccagcaaca | cctgccgtaa | gttactggct | gagtgagggc | 1740 |
| atagaagtta | aagggttactg | tttttatcct | ctatcctttt | ttcctttcct | gatcaagggtg | 1800 |
| ctcttctcat | tttttcctga | gaaccttagc | catcagatga | ggctccttag | tttattgtgg | 1860 |
| ttggttgttt | tttctttata | atggctctgg | gctatatgcc | tatatttata | aaccagcagc | 1920 |
| aggggaaaga | ttatatttta | taagagggaa | caaattttca | caatttgaaa | agcccacata | 1980 |
| agttttctct | tttaaggtag | aatcttggtt | atttcattcc | aaacatcggg | gctaacagag | 2040 |
| actggaggca | tttcttttta | ggctctgaga | ctaaatgaga | ggaaaagaaa | agaaaaaaaa | 2100 |
| aatgattgtc | taaccaattg | tgagaattac | tgtttgaaac | ttttcaaggc | acattgaaat | 2160 |

00539us.txt

```

acttgaaaac ttctcattta tggtatttat gatgttattt tgtacgtgtt attattatta 2220
tattgtttta taaatggagg tacaggatat cacctgaatt attaataaat gcccaggaag 2280
taattttctt ctcatctctt taaaactact gcctttcaaa gtgcacacac acgcgtccac 2340
atacactgca ttcgttgctc cagtataaat tacatgcatg agcacctttc tggcttttaa 2400
gccaatataa tgggctgcaa aatgaagaca ccagagtgtg tgcatacaaa tctcactgta 2460
ttaaagatgc aggttttcta attgtaccct tcttgtctct ctggcaatct tgcccttaat 2520
atccctggag ttctcatca gtgtcatttt ctgttataca cagttccaca attttgtctc 2580
tagttgactt caaatgtgta actttattgg tcttgcccta ttataattgt catgactttc 2640
agattgtatc tgaactcaca gactgctgtc ttactaatag gtctggaagg tcacgctgaa 2700
tgagaagtaa attattttat gtaatacatt tttgagtgtg tttttcagtt gtatttcctt 2760
gttatttcat cactatttcc aatggtgagc ttgcctgctc atgctccctg gacagaatac 2820
tccttccttt tgcatgcctg tttctatcat gtgcttgata ggcctcaaag ctaatgcttc 2880
cagtgaaca cacgcatctt aataataagg gtaaataaac gctccatattg aaac 2934

```

<210> 2

<211> 205

<212> PRT

<213> Homo sapiens

<400> 2

Met Cys Lys Gly Leu Ala Gly Leu Pro Ala Ser Cys Leu Arg Ser Ala
1 5 10 15

Lys Asp Met Lys His Arg Leu Gly Phe Leu Leu Gln Lys Ser Asp Ser
20 25 30

Cys Glu His Asn Ser Ser His Asn Lys Lys Asp Lys Val Val Ile Cys
35 40 45

Gln Arg Val Ser Gln Glu Glu Val Lys Lys Trp Ala Glu Ser Leu Glu
50 55 60

Asn Leu Ile Ser His Glu Cys Gly Leu Ala Ala Phe Lys Ala Phe Leu
65 70 75 80

Lys Ser Glu Tyr Ser Glu Glu Asn Ile Asp Phe Trp Ile Ser Cys Glu
85 90 95

00539us.txt

Glu Tyr Lys Lys Ile Lys Ser Pro Ser Lys Leu Ser Pro Lys Ala Lys
100 105 110

Lys Ile Tyr Asn Glu Phe Ile Ser Val Gln Ala Thr Lys Glu Val Asn
115 120 125

Leu Asp Ser Cys Thr Arg Glu Glu Thr Ser Arg Asn Met Leu Glu Pro
130 135 140

Thr Ile Thr Cys Phe Asp Glu Ala Gln Lys Lys Ile Phe Asn Leu Met
145 150 155 160

Glu Lys Asp Ser Tyr Arg Arg Phe Leu Lys Ser Arg Phe Tyr Leu Asp
165 170 175

Leu Val Asn Pro Ser Ser Cys Gly Ala Glu Lys Gln Lys Gly Ala Lys
180 185 190

Ser Ser Ala Asp Cys Ala Ser Leu Val Pro Gln Cys Ala
195 200 205

<210> 3

<211> 20300

<212> DNA

<213> Artificial

<220>

<221> misc_feature

<223> A genomic sequence containing RGS4 nucleic acid sequence and sequences upstream and downstream to the RGS4 nucleic acid sequence

<400> 3

| | |
|--|-----|
| agttcaagac cagcctgagc aacatggtga aaccccatct ctactaaaaa tacaaaatta | 60 |
| gacaggcatg gtgatacacg cctgtaatcc cagctacttc ggaggccgag gcaggagaat | 120 |
| cacttgaacc tgctgggggt ggagggttgcg gggagcaaga tcatgccatt gcactccagc | 180 |
| ccaggcaaca agagcgaaat gtcattctcag aaaaaaaaaa aggcatTTTA tatatatata | 240 |
| tatatatata tacacacaca cacacatata tatatacaca tatatatata catatatata | 300 |
| tatatacaca tatatacaca tatatatata catacatatg tacacatata tatacacata | 360 |
| tgtatacaca tatatacaca tatatacaca catatatata catatatata cacatatata | 420 |
| cacatatata cacatatata cacatatata catatatata catatatata tatatacaca | 480 |

00539us.txt

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------|
| tatatataat | atacacacat | atatatacac | atatatacac | acatatatac | acatatatac | 540 |
| acatatatat | acacatatat | acacatatat | acatatatac | acatatatat | acatatatac | 600 |
| acatatatac | atatatacac | atatatacat | atatacacac | atatatacac | atacatatac | 660 |
| acacacatag | atatacatat | atatacacat | atatatacgt | atatatatgt | atatatatat | 720 |
| gctccagagt | tcataagagg | tagcagttga | ttaccactgg | ggatagagga | aaagagagtt | 780 |
| tgacagcagt | gtattgtgag | aaggacattt | caggttgatg | gcaaatagta | ggggaaatac | 840 |
| ataaatgtgt | aataaaacct | atctgtaagg | tagttaagaa | ggtaacacta | tatatatata | 900 |
| tagtgaaagc | agtgtaaacc | taaaggatgg | gccaaggatt | taaatgttat | agaagaatgg | 960 |
| ctaagatgcc | aaagctcagt | gtatgtggca | gaggcatggg | gtaggggtgtg | tccaggttca | 1020 |
| tatatattgat | taagtgtgag | aacaccctgg | agtatgaacc | aagaaaatgc | aaaagccaga | 1080 |
| agtgatggag | gaaatgagac | acaataatga | agatattgag | aggaggggtgt | gggcctagag | 1140 |
| tgaagctttt | cgtgccagta | cttcttttga | aggcccagtt | ctcttctctc | tcgggggctc | 1200 |
| cttcatctct | catagagtcc | acagctttta | agggcccaaca | cttgagggtca | gcctggctct | 1260 |
| ctcatttgag | ctggatagaa | catttttagag | caccatctat | tcttcaagag | gaagttttaa | 1320 |
| aataaaagaa | ccttgaagag | gaaaaaatgt | agacattcaa | tctaaccttt | tcattttact | 1380 |
| agccaaagct | aaatagaatg | caggttacct | gtttttcagc | caggcaccat | catttcctaa | 1440 |
| ttgtttataaa | atttattatt | attgttggtt | ttattattat | ttgccataag | aagtttccca | 1500 |
| tatcctttta | gtataacaaa | aacacaattc | acaagcatta | taaaacccat | ggtgtctaac | 1560 |
| tattaaaaaa | attaagtgga | acacacttgt | cccagctact | ggggagggtg | aggagggagg | 1620 |
| atcacgtgat | cccagggggg | caaggttatg | gagagctatg | attgtgccac | tgactccag | 1680 |
| cctgggtgac | agggaaagac | cctgtctcta | aaattttttt | taaaaaaact | aaactggttt | 1740 |
| tattacagag | attctggaga | cagctacaca | taaaagggtg | gtatgcctca | tattagctac | 1800 |
| ccagggaggt | ggaatgccaa | cttaggtggt | gtcaccacta | ttaaaaatgc | cccaaagcaa | 1860 |
| tcaaaaactga | gaacttcctg | ggagcttagc | attgtgcaaa | agcagcacia | aacacttaaa | 1920 |
| caattcacag | ttgtgttgga | atgggaaggc | ctggaaatat | aaaccaaaga | gtatatgtgc | 1980 |
| taaattgata | gagattacaa | ttgcctgaaa | gaaaaagttg | acttttaact | agaatgttca | 2040 |
| gagtaggttt | acagaagaag | ctcttaaact | gggctccagt | ggatttgtca | atgctttgga | 2100 |
| agctgggtgg | gtgggagggt | tggagggggc | ataaaaagtc | atgttggtat | gctctgctca | 2160 |
| agtctccatt | ctgtttcctt | ttcctctttt | caatgtcatg | tcccattatt | tcattatggg | 2220 |
| cttcccttta | tccaggatca | atatgccacc | tcttggttgt | cttttaccta | cttctccacc | 2280 |
| tcactatgga | atcgtccttg | ggtagctcct | gtgcttgggg | acctgcacgg | gcacttttct | 2340 |

00539us.txt

gatgtcttga ttccagcttt actcctaaaa cttaaagtct gaggggcca caccatggca 2400
gtggtagggg tgggaatggg ggtcttgtaa cacactacat aaactacacg aaataaacta 2460
catgaaactc aacatgtttg caagactcag ttcacatcca tgaggagctc atgcttctcc 2520
ctcctgctcc cctagcacac atgattatct ctatttggaa atgtttggca tttttggtga 2580
agtgaatggg tcaataactt tctccacat cagaacaaaa gctctttaag gttagggatg 2640
ggatcataca cacttccctt gtccaagtcc ccatcacccc ttatctagac aattgctaca 2700
gtttcctaca cactcttcta acctcttgca gtctattttc ataaaacagc tagagaactt 2760
tgagatgtaa gtcaaaaaat agaacatgtc gctctttccc attgtttttg aaataaagtt 2820
caacccccctt accaggggtca acaaggccct gcaatgattt ggtcctgtta aaaattcttt 2880
agccttaact catgctgttc ttccttacac tcaactgcatt ctagccattg aggtttctat 2940
gcatcaaact ttttttggtc ccagcactgt gcacatcctt ctgggtagaa tgccccctga 3000
tttgtataat tagcacctcc ttcacatctt aggtcttagt ataactacta ccttcttaga 3060
gaagctctgc ttcttcatcc tataaaaaag taaaattcct taccctgtta ttttttaagt 3120
catccgtgtt tcattctgtt aaagttctta tcacaattta tcattatttt atttacagtc 3180
atgtgccaca taacaatggt tcagtcaggg atagaacaca aatgtatctg gccccataat 3240
attataagct gagaaatttc tattaactag tgatatcgca gccatcataa gtgtaatgca 3300
ggacattacc ttttctatgt ttagatatgt tagatacaca aatatatttc attgtgttat 3360
aatttcctac agtattcagt acagtaacat gctgtacagg tttgtaacct aggagtaata 3420
ggctatacca tacagcttag gtgtgtagta ggctataacc atctagggtt gtgtaagtac 3480
attctatgat attcccacaa tgatgaaatc acctaacatc acatttctca gaatgtttca 3540
ctgttgtgaa gtgacccatg actatatttt cctatatact tgatattttt gtgcatctgc 3600
ccatgagaat gtagtgtaag atcaaaggat gcaagaatgg gttctatcca gtatagtacc 3660
cactacactg gtggatgtca atatgtattt gttagattaa tatctcaaga atgagcacct 3720
ttctcagaca cataaaagat gctcaatata aaagtttggt gaactgaacg ttattggcaa 3780
atgtaacatg atcggattta aagaggagcg aaacagaggt ctgggtcaaa caccatactt 3840
ctagagtgc taagaggtag cagttgatta ccactggcga caggagaaaa aagagcttga 3900
ccgcagggtg ctgtgaagac atttcagggt gatggcacag aacaggggaa atacataaat 3960
gtgtgggaat attcagtggg ctgggatgac tacatagtag aatataatga agaaaagagt 4020
ggaagggaaa gatgaaaagt tggaatgggg atgaattatg aaagtaccag aatgttatgc 4080
taaggaatct agattttaaa atgtgagggc aaattgaagt cctgggcacg ttacaaaact 4140
agaggtcata aagtttacct taatttacca agatttcta gaggatctat aattggaatc 4200
cagatctgcc tctctgtaaa gttcaagcac tttccatgac accatactgt ttctttccac 4260

00539us.txt

ctgcacaatg caaatgaact cttatgaaac tgctgtttct atcctgggct aaatgttgca 4320
 gaaaaaagat ttaatctttg ggataaggct attttgggtt ttctcctact tcttgggaaa 4380
 caagggtttt tccccctggc taattaagtg tgggtattgtt cttccagggg aatcagtgat 4440
 gcatcacctg ctgctatcaa atgtcagggg tggagttcct gatttattgc atgtgcccac 4500
 aaagcttggt gcaaagaatt ggacacattt cccaaaagta agacatactg ggaagtcctt 4560
 gtttaccttc ctggtatata gcatcctcca gccccatata tttgcttttt agtcctaaaa 4620
 atcaataact gaactctcat tgatgtctag gccattgtag taaacaataa agaaggaggg 4680
 aggcttctga caactgagag gaaattgtca tctgaagtgg tgcaagcaca gcctggggct 4740
 gagccttggt ctacatcctg cccaagtggg ggatcagtgcc cccatttaac atctggtaga 4800
 actaaagaac gcaacgcctg ccacaatgac ttatttcctt gcatttgata ccgtcaatcc 4860
 ttgagaaatg ttttcttttg ttctccctga gcaaagggtt gaaaaatttg aaatttacct 4920
 agagaccaca catagttcac atcctgctgt gtggctgaat gtctgcccc cagtaggaaa 4980
 cagttcttct aaagcctatt gtcaacaata ccttcagat gttagcattt tacaatttaa 5040
 ggaacttaaa atagccttca aactttttgc cagtttctct gatatccaat ctattctttt 5100
 actctgcctc ccaagctttc tttctagaat gctaacctga tcggcttaag tacttgaact 5160
 acctcttctc ctccattaac tacagagtaa attctggtct tcagagtaac aagaaacacc 5220
 ctttagttct cagcatattc gtgcaccttc atttatctct ctttctctct caaagctgca 5280
 gtaggggtga aaacgtgtga tacattttct cttccatcat aagggtcgca accaaaactc 5340
 ctatagtaaa agacagggtt ataagagcaa aacctaacaa atttatttaa tcaaagtttt 5400
 acatgacatg ggagtcttca gaaatgaaga cccaaagacc caggggaaac tgtctgtttt 5460
 ttttgctgag gttcgatgaa gaatggatag catgtagcca tgtagattag acaaaaggat 5520
 atgatctagt ggtaaaggac tcagggggaa acacagcaag gcctgtctat tcagattctt 5580
 cttgatctct ctctctctat gtatagcatt ctttctctct gagtatgggg caggactctt 5640
 cttcaatgag ggtcttcaag ggagaaggga gaaagtggcc tttttagatt ttatggcttg 5700
 cttcggggaa gaggagtctt agtttctatg acccatcttg gggaagagga attctggttt 5760
 ctgtgacttg ctttcatgaa gaaagaggag taagaggcag gagggcagga gatggtcaga 5820
 aagagacttg gctgcttctg agggcttccg ctctccttta gttccaagta cttcttagca 5880
 taccaaagca ctatactttg gcatatgggt ttctgagctc taacactgca atcatgctaa 5940
 actcctctat gaccttcaaa cattccactt gcttttatct tttatgggtg tgatggcata 6000
 gaggtcaata gcaaagacct tggagtccca ctgtctgagc tggcataaca ttactaccac 6060
 ttaatcaatg tgtaagctca ggtaagtact taagtctctt atgcttctc tgtaaaatga 6120

00539us.txt

| | |
|---|------|
| gaatcattga agaacattct ctcaggatgg atcatgagga ataagtgaat taactggcat | 6180 |
| atagtgccta aaccagtgcc ttgctcagtt agtgacagat aaaatcatct gttattactg | 6240 |
| tgcccactat tgtgatgctc ttctcttctt tgtacaacga ctacatctct atttatcatt | 6300 |
| ttagggtctc cttgtgaaaa accactccag attcaaaaga ttgagtttaa tctctatcct | 6360 |
| ctgtgctttc ctggagtttt gtaaagtaaa tcttcacttg acatcatgga taggttcttg | 6420 |
| gaaactacaa cttcaagtga aaggacataa ctaaaccaat ttttttctca tcaacgttat | 6480 |
| aatgaaatgg cattgatgaa atgatggcat tcaaggacct gctgtacctt gtttcactta | 6540 |
| aagtcactgt ttccaataat ctattgatga cattgaggac ttactatata ataataaata | 6600 |
| tatatataat cgacgaaaca ggaatcaaac tgctaactct gctaactggc ctccttgctt | 6660 |
| ccacactctg cccactcatc tcagtccttc tttcacaaga gtcagaatga tcagatgaga | 6720 |
| cccctcctct gcttctgttt cttccatgga tttccactgc actctgataa agtccagcct | 6780 |
| cttgaccaca gcctacaaat ccttgcacga tctatcgttt acttttccat ctccttttat | 6840 |
| gctactttca tcttgttctc aattctctag ctatgctggc cccttcttgt tctttcccat | 6900 |
| ttttttttaa tttttaaaat ttgtatatat ttatgggtta taagtgaat ctttttagat | 6960 |
| gcataggttg tatagtgata aaatcagggc ttttagggta ttcacacct gaatgatgta | 7020 |
| cattgtaccc ctttaagtaat ttctcaccat ccgctgactt cttgccccct ggggtattcat | 7080 |
| cacctgaatg atgtgcattg tacccttaa gtaatttctc accatccgct gacttcttgc | 7140 |
| cccctgggta ttcacacct gaatgatgtg cattgtaccc ctttaagtaat ttctcaccat | 7200 |
| ccgctgactt cttgccccct catccttctg aggcctcatt gtccatcatt ccacactcta | 7260 |
| catctatgtg tacacattat ttagctccta cttataagtg ataacatgca atatttgtct | 7320 |
| ttctgtgtct gtcttgttt acttatgata atggcccca gttctatcta ggctgtgca | 7380 |
| aaaggcatga tttcattctt ttttatggct atgttctttc ccaattttaga taaagaacac | 7440 |
| tcgcacttgc tcttacttct atttggaata ctaattccta ggcttcttgc attgcttct | 7500 |
| ccttctcacc catcaaactc catttttagat accacctctt caaagagggc tttcctgacc | 7560 |
| accttggtg aattagccct tcaccatctg attactctct agcacatcac ctgcccattt | 7620 |
| tattcatggc acaggtcaaa atctggaatc acctgatttg tttattttct gactccttct | 7680 |
| actgagatga aaactctact agagcggaga ttttatctgc ttgtatcagg tactgcttca | 7740 |
| aacagcacct gatacagagt aggtgggtcaa aagatatctt ttaaacaat gaacaaataa | 7800 |
| aaagtagatc ttttgagagt aaagctcttc cacactacca gagtcattca ggaatgacaa | 7860 |
| atcatagaat aacagaattt gatgctttgt gcatatcaga gaaagaaggc ggaaggttgt | 7920 |
| caaggatatca tgatgtacca gtcctgcct cctcaaacac aatctgcaag tcccacagt | 7980 |
| aaaagtaag ttaactcatg tgaagcgttt tacaacact tttttaaaag tcttaaaact | 8040 |

00539us.txt

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|------|
| cctaagaaag | caagatttaa | tagtcaaaga | agtgagtaaa | catgaaatgc | ctgaacagag | 8100 |
| taatgagcta | agcacaaagt | tagagacatg | ttagttaata | tgtcttgaaa | gcagcagctc | 8160 |
| ctgctttcaa | ggagcaagaa | caaattgggc | aagtgaacac | tccttgaata | aaatgtgtaa | 8220 |
| aattaatfff | gggttatgtt | ctatactgtg | tataatagaa | tgataaaaat | tatttgacta | 8280 |
| gcactttgta | gtttagaaat | atctctatff | acacagttta | ccttatttga | taagactgtt | 8340 |
| gagtgatggg | atagcatggg | ggacaatcca | cataactgag | tatcgagaca | cctgtatctg | 8400 |
| gaccagctc | tgtagtaag | aagctgtaac | ctcagcaagt | cactttctct | ttctgggtct | 8460 |
| ctatttcctt | tttgggtaaa | tgagagtgtt | aggctagatt | gcctttgaag | tcccattttg | 8520 |
| tctttaaagt | cccattctatt | gcagtgatff | atatttaact | catgacaaat | caggcttctc | 8580 |
| ttattctaag | tgcaagacat | aaaactttta | ttgtggaatt | tcaggcatca | gtaaaatctff | 8640 |
| ttgggtactc | acttatgttc | ctgaaatcaa | tctatttgag | tgatcactct | tttaggtgcc | 8700 |
| caggtaaaca | aagaaggcca | tggtctttct | ttgagtgacc | ttctttccct | tttaattagt | 8760 |
| ctgacctctt | taatgtcagt | tctgactgat | tcatttcctt | gggccatctt | ccttgggtctg | 8820 |
| agggccttcc | tagtttcata | ttgcacttca | gttccttcca | caccaccatc | aaggatggct | 8880 |
| gtcaacattc | atttgttcta | tggtataatt | caaggaaaag | ttgcccagta | gctaatacaa | 8940 |
| taaatgccct | cttatgggag | gctagagact | ttttcctata | atttaaagtc | atcttctgta | 9000 |
| gattatgggc | cctccaccac | tttacatttg | tctgctgtct | ccttgctctg | ctagtcatgg | 9060 |
| aacgtgttgg | tagtgggggc | agtgtgggat | gttcaagggc | acgtattggg | tagggccaca | 9120 |
| tatgggcatt | gctttgtgcc | attctttcta | tatttttggt | attttgcac | tcactggaac | 9180 |
| ccaactatff | ttcatctctt | ccacctaaac | tatttgatgc | ctctgtttct | tatatataaa | 9240 |
| gtatagctca | ctgtagccta | tgatcaggaa | cctatctgct | ttctaaatga | aagctgtttt | 9300 |
| ggtcagatct | agcaattaat | tcctttcttc | cacttatagc | tttcctctgt | aactctgggtg | 9360 |
| taggtatttg | gtttatggct | ataagatgtg | aaacacctga | atgattctgt | ccatgcaggc | 9420 |
| atttcagttc | atgatattgt | atgtaaaaga | tactgattgt | ctaggtgttc | agaaacacct | 9480 |
| atagggttta | atattcttac | aatcagtttg | aaggctgggtg | atacgcaaag | caaactacat | 9540 |
| atttttctgc | ctgctctctc | tctttctctc | tacatctctc | tttctttatc | ttttgaaata | 9600 |
| tcagtttgga | gacttagaat | tacataagac | ataaaccat | ttgatataag | aattgctgtg | 9660 |
| tatatttgct | catctactcc | ctcctttggg | cctcgagctg | ccggtttaga | ctttttacag | 9720 |
| gacgcaggca | tgtgaaggag | aaactgtcag | tgctaggctg | aattctgttg | ttaccaagat | 9780 |
| ttctagaaaa | gtattcctca | gtcaggttga | ttacagatat | agcaaatacta | tttttcctag | 9840 |
| ggtagtttct | gtatgctgcc | gggcttataa | ctgtctgtca | tccagctatt | tctctccacc | 9900 |

00539us.txt

ttcttgtttg cataacaacc aaggcaactt ccgcaaatac ctgctggag acgatgatcc 9960
 tgccagctcc cttttgaaa tcgtgaggat cagatcttgg accatgtata atatgatgct 10020
 tctaatacaa aagaggaaa gcatgggag tcagctccta agtaagctcc agaattcctg 10080
 ctggtacttt tccttcagg aagcaacttc cttgatattt tttttttaca ggcatatgaa 10140
 taaaaactat attttgcagc attgtacact ttttttcctt ttctagaaat tctaaacctc 10200
 tgacattggt ggagacattg agtacatttt ttcccatatc cctacttttc agaaggattt 10260
 tctctgctcg ttcacttaac attgctgatg cgtcagctct tcttcctca tctctttcag 10320
 gggctggaga ggcagagggg gacagaggag ctggtactgc agagcggctg tctgattggc 10380
 tggacggctg tagctgggct ataaaagaga cccctacagg cttagcagga agacgctcag 10440
 aggattctga caatatcttt accggagaag aggcaaagta cgctcaaagc cgaagccaca 10500
 gctcctcctg ccgcatttct ttcctgcttg cgaattccaa gctgttaaata aagatgtgca 10560
 aagggtctgc aggtctgccg gcttcttgct tgaggaggta agattgcttt cagccattaa 10620
 ccatattaaa cttttggcta gactttctca gttatttaca tgttgactt actaacctag 10680
 ttctgtgcaa ttagaaacag tgtggtcagg agagcacgac tttctaactt tcctccaaga 10740
 ctagctagat attgtgactt aagacatgtg ctcccaaata ttcagccctt atgtgttgtt 10800
 ttgtgtgacc tcagttttga gaactgttct attctttaag ccagggtctaa gaaagctagt 10860
 tttaattaag aagcgagatg aggtttgagg ctatgtacag tgatctgtaa tatctccatc 10920
 tgtgattact actgctattt gagcatccct ggagtacata gaagcctggc tctgggcttt 10980
 ctgattgtat gctacaactt gtttcaggaa aggtaccca gaatgagggt tggctccatc 11040
 atcagaaagg cactatgctt tccgtgtggt ggtgcagtaa ctttactct ctatgttctt 11100
 ataagcaaata gttacaatga gatatgagtt ttaaagccag atcttcctta tctctctgcc 11160
 ccatctctag ttcttgaagt gtctcatatg agtttggttg agaaatattg atcattacaa 11220
 atcagttaat agttttgtag aagatctcat cttaaagaca ttgttttggt aatatactcc 11280
 cttgattttt ttaaaagacc ttacagacat acagctattc atttgttttt ggtttggtca 11340
 aaaaagggtat aaagaaatgc attcagagaa agatcatata ttagccaggt gaaaattaaa 11400
 cacaaaatga gtgcatatta cattacttaa tcttgagtc aaaggtaaaa agtcaacctc 11460
 aagggtatact acctgctttc ttatcgact gcaaatagaa attaccacaa attttatttt 11520
 ggaaataatc tcagaaaaca taatttttta tgtactatta aaacatttac tttccaaata 11580
 ttctgtcatt caggagtatg gaagtatcga tggcttcttt aaaatgaagc aggagggctt 11640
 ggcagagagt atctatgaaa taagttcctc tgaccttcac gcttaatttt ctgaatggag 11700
 tggagcaaata tacttcaagc ttcacttaac ttgcatatga aatgaaccgt acaaaaatac 11760
 aagagtgtca ggagaaagtt atgctctggt aaatattttg caaacagat aaaagataat 11820

00539us.txt

actagagctc tgtcctcaaa gagttaagca gctaattctaa ggaggtaaac tctatgtcag 11880
 caggatgaac tgctcttccc tttcctcctc aataaattgc aaatcatcta gtccaacatc 11940
 tttaccacca gtgcctgagg ctccagagga gccattgcct tctcaaggtc acatagggtg 12000
 tgggtgagtt aggaccaaact ctagaattcc tgactccagt aacttctgaa gtcattttgt 12060
 tttttatttt tatggtttta ttataagaat acttgctaag cacacttacc ccctgcattg 12120
 attaataact ctaggatctc aggtggatcc agcacataga aatatgaatt cgtttctatt 12180
 tggacttcat gatataattta cattatcacc ttggaatcac cctaaccattc aggattgtat 12240
 cttgttataa tcaaaaagga tgttgcatcc cctgaacagt catcagtcag ggaagcagag 12300
 gagggaaagt aatcttgcca ggaagagaaa atactattta agggacagtc agagaacata 12360
 atggaattca aactttctgg gaaaacctac atacataaat gtattagtgg ccatcctaaa 12420
 tgtctttata tctttgaggc tttattttcc ctactccaaa tagacacatt tagttattca 12480
 tttcttttaa aatggatatt ctctttttaa actatttctt gactttttta ataaaaagag 12540
 atgcaagcaa gaggatattt aataaaaagt aagagagttg agcttaaggc ttattaaaag 12600
 accccctttt tctagttagt caggagctct aatgtgccct ggctacctat taaatgggtg 12660
 caataaactg gaagctcagt gatgactcta gcctgcttct cctaatagct gttaagcctc 12720
 aaatgccctt tagagtgtgt atgtccttta aagtagctat taagaaggaa agcagcagca 12780
 gcagatatgt tctagaaaga agccccaaga agctgaggtt tcagcttggg catttgtttt 12840
 cgccatccca tgctccattt ccctctgctg gaactgtgca cctcagtgtt ttctccctct 12900
 atacctcaca gcaggaactg cttgcccccc ccccccccc ccaacataca tggctggaac 12960
 tgaatagact tttactttcc cgagggtgct ctacagttcc ctctgccagc aggggaacag 13020
 atggaaatag caatcacctg ccagaagggt gcgtgcagca aggatgtgca tcttttgccg 13080
 ctactgcttt ctgattccta aaaattactc agagatcact catgtgttca gtgattcagg 13140
 ttctgttgaa gataccaaag atattcggtt ggtcaaaatg acgggcatat aaaggcttct 13200
 caggtttctg aggtaaactg aagggtcaga attccagttg tggatgaagg aaatgggtgt 13260
 atgactgcct caaggttttg tagcaagtca tagggaacca agaggaatct tgttttcctc 13320
 agaggatcat ccaactccaa ctcccgttcc ctaaactgtc tctgagccat agactagtaa 13380
 tggactcttc aagctctacc attaggtatc ttttaaagaa agctgggttat tactatttat 13440
 tcattttttt ctcttctgtg cagtgcaaaa gatatgaaac atcggctagg tttcctgctg 13500
 caaaaatctg attcctgtga acacaattct tcccacaaca agaaggacaa agtgggttatt 13560
 tgccagaggt aagagaaaag gccttggtga agatgtactt agtattaact atctgatgat 13620
 ggggatgttc tgtgagaagg aacttgtgct cctagttaag ccagatttgg atcaagatag 13680

00539us.txt

cctccatttt catggagatc ataactacat ttgaaatttc tatacattta gtgaaaaact 13740
gccctcatca ataacatatt ttgtcataac gatggaaaat aaaatctttg ccttcattca 13800
ggatcttaga tttcttgccc caattttttt accatggcat tccaattatt ctgtttctct 13860
ctattttttc tagagtgagc caagaggaag tcaagaaatg ggctgaatca ctggaaaacc 13920
tgattagtca tgaatgtaag tctgacagca acctgggatg aggtactctg gataagacaa 13980
gttatattat gctgggtctaa tagaaactgc agcaaggcct ggcttctttc tgatgttcag 14040
actcaggaga ctcttttaggt cttaaattca gtctgtttta aattttaata tgccctagag 14100
ctttgtgata tacaatgaaa agtttatgca ggaaccatgt ggaaaaccat ctctctcatc 14160
acaaggaaaa acggaagaga gaaaaaaaaat gataaatatc aataccttct tgcaaaatca 14220
atctcagttt ctctttccca aattgacctt ggtaattgat agctgcatag gcatttcaga 14280
agcaaaatac ttccttgaaa gaggcttcca acttgagtaa gaatcattag gtagaactgg 14340
gaaccactgg atatcaaaca cagattaggg ttacctgact ccaggtgact tgaaaaaagc 14400
aggggaaaaa gggattgctt gaatccatgc tttatcccc aagtacctca gctttatgtg 14460
aaatagcata tccaagaggc caaccagtgt gatgacaact gtggtccttt ctctgtatc 14520
ataggtgggc tggcagcttt caaagctttc ttgaagtctg aatatagtga ggagaatatt 14580
gacttctgga tcagctgtga agagtacaag aaaatcaaat caccatctaa actaagtccc 14640
aaggccaaaa agatctataa tgaattcatc tcagtcagg caaccaaaga ggtaggtttt 14700
ttatggatac ataaaaattg tacgtattta tggagtatgt gtgatatttt gatacatgca 14760
tacaatgtga taacaatcaa atcagggcaa ttgctatata catatctcaa acatttatta 14820
tttctacgtg ttgagaacat tccaaatctc ctcttctagc tatcttaaaa tatacaataa 14880
actattgata actatatcac cctaattgtc tatcaaacac tagaacctat tccctctacc 14940
caactttcta tctattcctt ctaccatta gccaacctga ccaaaaagggt aagcttttat 15000
ggcagagaac tctctggatc ttagtgaagg ttcctagaat agtggagctg actatcataa 15060
tcttgacaac cccaaataaa tcagtttttt aaaaaatctc ttttatccat gtggcttacc 15120
ataacctccc tgcatgaatt tttctgatga atctcccaa tttgttagac agaacagaag 15180
atcttgccct gctctctcta aagcagaaag gttcattctg aacctttcat actctctcac 15240
atgtgccaaag gaggaccca atgtcacttt tgttttttgc ttctgaaata cagaggggtg 15300
actgccactt acaagtcact acaaagcata caggcttgca tcctcaacag ggatataggt 15360
ctaatgaagc cttggccttt gccctcagg tgaacctgga ttcttgacc agggaagaga 15420
caagccggaa catgctagag cctacaataa cctgctttga tgaggcccag aagaagattt 15480
tcaacctgat ggagaaggat tcctaccgcc gcttctcaa gtctcgattc tatcttgatt 15540
tggtaaccc gtccagctgt ggggcagaaa agcagaaagg agccaagagt tcagcagact 15600

00539us.txt

gtgcttccct ggtccctcag tgtgcctaata tctcacctga aggcagaggg atgaaatgcc 15660
 aagactctat gctctggaaa acctgaggcc aaatattgat ctgtattaag ctccagtgc 15720
 ttatccacat tgtagcctaa tattcatgct gcctgccatg tgtgagtcac ttctacgcat 15780
 aaactagata tagcttttgg tgtttgagtg ttcacaggg tgggacccca ttccagtcca 15840
 attttcctaa gtttctttga gggttccatg ggagcaaata tctaaataat ggcctggtag 15900
 gtctggattt tcaaagattg ttggcagttt cctcctccca acagttttac ctgaggatgg 15960
 ttggttagtg catgtcacat gacatccaca tgcacatgta ttctgttggc cagcacgttc 16020
 tccagactct agatgttttag atgaggttga gctatgatat gtgcttgtgt gtatgtctat 16080
 gtgtatatat tatatatata ttagacacac atatacatta tttctgtata tagatgtctg 16140
 tgtatacata tgtatgtgtg agtgtatgta tacacacaca cacacacaca cacacacact 16200
 tttgcaagag tgatgggaaa gaccctaggt gctcataact agagtatgtg tatgtactta 16260
 catgggtggt ttgatctctg ttctttcata ctacatttga acagggcaaa atgaactaac 16320
 tgccatgtag gctaagaaag aaatgctaac ctgtggaaag ttggttttgt aaaattccat 16380
 ggatcttgct ggagaagcat ccaaggaact tcatgcttga ttgaccact gacagcctcc 16440
 accttgagca ctattctaag gagcaaatac cttagctccc ttgagctggt tttctctgat 16500
 ggcacttttg agctcctaag ctgccagcct tcccttcttt tcctgggtgc tcagggcatg 16560
 cttattagca gctgggttgg tatggagttg gcagacagga tgttcaactt aatgaagaaa 16620
 tacagctaag gccttgccag caacacctgc cgtaagttac tggctgagtg agggcataga 16680
 agttaagggt tactgttttt atcctctatc cttttttcct ttctgatca aggtgctctt 16740
 ctcatTTTTT cctgagaacc ttagccatca gatgaggctc cttagtttat tgtggttgg 16800
 tgttttttct ttataatggc tctgggctat atgcctatat ttataaacca gcagcagggg 16860
 aaagattata ttttataaga gggaacaaat tttcacaatt tgaaaagccc acataagttt 16920
 tctcttttaa ggtagaatct tgttaatttc attccaaaca tcgggggctaa cagagactgg 16980
 aggcatttct ttttaggctc tgagactaaa tgagaggaaa agaaaagaaa aaaaaaatga 17040
 ttgtctaacc aattgtgaga attactgttt gaaacttttc aaggcacatt gaaatacttg 17100
 aaaacttctc atttatgtta tttatgatgt tattttgtac gtgttattat tattatattg 17160
 ttttataaat ggaggtacag gatatcacct gaattattaa tgaatgccca ggaagtaatt 17220
 ttcttctcat tcttctaaaa ctactgcctt tcaaagtga cacacacgcg tccacataca 17280
 ctgcattcgt tgctccagta taaattacat gcatgagcac ctttctggct ttttaagccaa 17340
 tataatgggc tgcaaatga agacaccaga gtgtatgcat acaaattctca ctgtattaaa 17400
 gatgcagggt ttctaattgt acccttcttg tctctctggc aatcttgccc ttaatatccc 17460

00539us.txt

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-------|
| tggagttcct | catcagtgtc | atcttctgtt | atacacagtt | ccacaatttt | gtctctagtt | 17520 |
| gacttcaa | gtgtaacttt | attggtcttg | ccctattata | attgtcatga | ctttcagatt | 17580 |
| gtatctgaac | tcacagactg | ctgtcttact | aataggtctg | gaaggtcacg | ctgaatgaga | 17640 |
| agtaaattat | tttatgtaat | acatttttga | gtgtgttttt | cagttgtatt | tccctgttat | 17700 |
| ttcatcacta | tttccaatgg | tgagcttgcc | tgctcatgct | ccctggacag | aatactcctt | 17760 |
| ccttttgc | gcctgtttct | atcatgtgct | tgataggcct | caaagcta | gcttccagtg | 17820 |
| aaacacacgc | atcttaataa | taagggtaaa | taaacgctcc | atatgaaact | atttgcttgg | 17880 |
| aaacacatta | atgatccaga | gacatgctat | gagaaacatc | agggtgtagg | gtgactttag | 17940 |
| aaaaatactc | atactgagtc | tttaatccct | cctgtgccag | tgaactctgg | gaaagaaagt | 18000 |
| acaaactgaa | tattgtttat | tctttagttc | atgccactgc | tctgcttggc | tctactcata | 18060 |
| gaaccaaggc | aatcttagct | tcagagactg | caaaacagat | taagtgattt | gcttgcagat | 18120 |
| tctcaatcaa | ttttcaaggg | atagagttca | ccttccagag | ccattctttt | atttccagtt | 18180 |
| acccgcctgt | ttgagagatg | atagagcagt | gggaaattga | gagagttgaa | aggagctata | 18240 |
| gattcttacc | caaacttcaa | aaatccttcc | ctcccttttg | ttaattctct | ttcctggaaa | 18300 |
| agaggtcata | aaatgttcac | atcctcagta | ataggccctg | tgctgtgtct | attatgtcat | 18360 |
| gagactccca | tttcctgacc | cttctttccc | attgtaagag | tagtagttac | aagggtgttaa | 18420 |
| ggatagatga | tcttcaacac | ttttgagaaa | tagatccatt | tacggatctg | gtaaaaacta | 18480 |
| tggaccgaac | catcttttaa | gaaaaaaatt | cagagaggaa | tctaaatttt | gtgtgctttg | 18540 |
| aggggaaact | ctcagaatct | cccctcaaaa | ctatcattct | tctcttatac | tatagatgtg | 18600 |
| tcagactctc | actgggactg | tatagttgct | gctccctgta | tttgataata | tctatcaaga | 18660 |
| actgcagggg | aattcaaagt | cacgctatta | gcagcaagtg | tgagcagtg | tggtttcccc | 18720 |
| agtctctaca | tccctcatcc | tttctttctt | ctttatgggt | gtctattaaa | gaaataaaaa | 18780 |
| aaaatattgg | ctgaccgttt | ttctgaagat | aatgtatatc | aaggaccacc | ttttgaaaaa | 18840 |
| cactcattat | tcgagaacaa | agacacaaca | tacgagaatc | tctgggatac | attcaaagca | 18900 |
| gtgtgtagag | ggaaatttat | agcactaaat | gccacaaga | gaaagcagga | aagatctaaa | 18960 |
| attgataccc | taacatcaca | attaaaagaa | ctagaaaagc | aagagcaa | acattcaaaa | 19020 |
| gctagcagaa | gacaagaaat | aactaagatc | agagcagaac | tgaaggaaat | agagacacaa | 19080 |
| aaaacccttc | aaaaaattaa | tgaatccagg | agctgggttt | ttgaaaagat | taacaaaatt | 19140 |
| gatagactgc | tagcaagact | aataaagaag | aaaagagaga | agaatcaaat | agacacaata | 19200 |
| aaaaatgata | aaggggat | caccaccgat | cccacagaaa | tacaaactac | catcagagaa | 19260 |
| tactataaac | acctctacgc | aaataaacta | gaaaatctag | aagaaatgga | taaattcctc | 19320 |
| gatacataca | ccctcccaag | accaaaccag | gaagaagt | aatctctgaa | tagaccaata | 19380 |

00539us.txt

```

acaggctctg aaattgaggc aataatcaat agcttaccaa ccaaaaaaag tccaggacca 19440
gatggattca cagctgaatt ctaccagacg tacaaagagg agctgggtacc attccttctg 19500
aaactattcc aatcaataga aaaagaggga atcctcccta actcatttta tgaggccagc 19560
atcatcctga taccaaagcc tggcagagac acaacaaaaa aagagaattt tagaccaata 19620
tccttgatga acattgatgc aaaaatcctc aataaaatac tggcaaaccg aatccagcag 19680
cacatcaaaa agcttatcca ccatgatcaa gtgggtttca tccctgggat gcaaggctgg 19740
ttcaacatac gcaaataat aaatgtaatc cagcatataa acagaaacaa agacaaaaac 19800
cacatgatta tctcaataga tgcagaaaag gcatttgaca aaatttaaca actcttcatg 19860
ctaaaaactc tcaatcaatt aggtattgat gggacgtatc tcaaaataat aagcactatc 19920
tatgacaaac tcacagccaa tatcactg aatgggcaaa aactggaagc attccctttg 19980
aaaacgggca caagacaggg atgccctctc tcaccactcc tattcaacat agtggttgaa 20040
gctctggcca gggcaattag gcaggagaag gaaataaagg gtattcaatt aggagaagag 20100
gaagtcaaat tgtccctgtt tgcagatgac atgattgtat atctagaaaa ccccatcgtc 20160
tcagcccaaa atctccttaa gctgataagc aacttcagca aagtctcagg atacaaaatc 20220
aatgtacaaa aatcacaagc actcttatac atcaataaca gacaaacaga gagccaaatc 20280
atgagtgaac tcccattcac                                     20300

```

<210> 4

<211> 480

<212> DNA

<213> Artificial

<220>

<221> misc_feature

<223> A genomic sequence occurring upstream of RGS4

<400> 4

```

ggattaatca tgacaaaagt aatctaaatc tcgttaagac tacttaatga tcaatctttc 60
cctctgtttt cctgactat aggggaagtga attgccccaa tccttctcta tcacccccct 120
gcagccatgc caatgcctta cctctgttat attcagccat aggggaagct tattctcata 180
gaatcagggg ttggcatgta gtcactagct attcttggtg agactagtga agatgagtga 240
aggaaaatat tgcataagtg aaatctcata ggcacaaata ggtgtttgtg agagtaacaa 300

```

00539us.txt

taaaagaaag tcattcccat actctagtag atgactcatt ttctcctcat tttttttttt 360
 tcaaggcggt ctctacaacg gttaacctag taccaaaaat cttctctttt tttcttggac 420
 aaatcctggt caagtttagca tggcatttac tacgtccaag acattgtcca gatgctgtgg 480

<210> 5

<211> 420

<212> DNA

<213> Artificial

<220>

<221> misc_feature

<223> A genomic sequence occurring upstream of RGS4

<400> 5

agagaaagaa aggcaggcag caaggagaaa aaacattttt taaaaaaaga aaattaaaat 60
 ccatgtaatg tctgatatct gttctgctgt atgtgtagat cttccatat accaactcat 120
 tagccttatt ttacaggtga ggaaaatgag accgagagtc cttcttactt gaccaagttc 180
 acacagcaag atcacacatg gtagaaccaa tgttagaacc taggtgtata cttgctcatt 240
 caatatgtac aataattgca aaagtttcca taggtcttat tatatatcag gcactataaa 300
 tgctatgcat gtgtcaacta atttaaacct aagcaatatt ataaggaagg tactattata 360
 gaaatctcag ccttacaggt aagggaacag gaataaagag atgtgaggta atggccaag 420

<210> 6

<211> 360

<212> DNA

<213> Artificial

<220>

<221> misc_feature

<223> A genomic sequence occurring upstream of RGS4

<400> 6

ataatctcct ttcaagtttt tctcctgtca cttgctagtt gtgtgatttg ggacaaatca 60
 tttaactcct tgtaaaggga gagaaggaag gctgtaaaaa aattaagtaa taaaagata 120

00539us.txt

| | |
|---|-----|
| aactccttgt ggtatatttt gttattgttc aaaaatattt attgcccctc ttaggatgtc | 180 |
| ttaggtcatt cttgcattgc tataaagaaa tacccaagtc tgggtaattt ataaagaata | 240 |
| gaggttaaat tggctcacag ttctgcaggc tgcacaggaa gcatcccact ggcgtctact | 300 |
| cacttctggt gaggactcag aaagcttttg cttatgacag caggctaagt gagagcaggt | 360 |

<210> 7

<211> 420

<212> DNA

<213> Artificial

<220>

<221> misc_feature

<223> A genomic sequence occurring downstream of RGS4

| | |
|---|-----|
| <400> 7 | |
| catggtattt ttactaccca ttgccttcta ggaaagggtg taacaaatag gaaatattaa | 60 |
| tatttttaat gcctttgagg gtgttaaaaa gcacaactct aaggactgtt tgtaaattcc | 120 |
| agggtcaaag ttgtttctcc ttctctattt cctaccttgg tgatggcctg atcttatatg | 180 |
| gagtcactcc aactagaaac cacagaatca tccctagttc ctacttctga ctactccat | 240 |
| acactcaaaa gtcacctgac tctgcagaat ttctctagaa aaactctatg aaaacctatt | 300 |
| cctgcctctc cacctgcata gatgtagctt catccaggct cttatggtgc atggcctcgg | 360 |
| ttactgcctt atcctttcta ctggcctctc aatctcccat ctgataccca ttaatgtact | 420 |

<210> 8

<211> 360

<212> DNA

<213> Artificial

<220>

<221> misc_feature

<223> A genomic sequence occurring downstream of RGS4

<400> 8

00539us.txt

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ccaaatactt | tttaggcaca | ctgggaagtt | acattgtttc | ttgcaagtga | caggttgtcc | 60 |
| tttaattagt | tctttctctc | aaaaagagac | tgctgactcc | aaactgggaa | gaaaccact | 120 |
| caccagcaaa | atgctgctga | attcactctg | atagttttct | aatctctcat | cagtagatga | 180 |
| caataatgaa | gccagtattg | ttaccacaag | actcagatat | gtctatcacc | caagatgatt | 240 |
| tctctttaag | acgcaataaa | agggaacttt | tctccccatt | tattagcaac | taagatgaaa | 300 |
| tgagagccag | agaaataaag | tgaggaagga | aagagaattt | actaccttta | caagctgaaa | 360 |